

93764

November-27-12 11:10:21 AM

N900040100

Setup Start ***NS1***

Stop ***NS2***

20

20

Customer:

Run Start *NR1*

Stop *NR2*

Date:

Draw Nbr	Revision Nbr
D2662	Rev E

0.00

100

HAAS CNC VERTICAL MACHINING #1

0.00

HAAS 1

HAAS CNC vertical machine #1

Memo

Program part number and batch number.
Inspect part number and batch number are programmed

MACHINE AS PER FOLIO FB069 & DWG

DWG REV: TE
FOLIO REV: AA

0.00

110

CONVENTIONAL MILLING MACHINE

0.00

Mill Conv

Conventional Milling Machine

Memo

Machine Keyway and inspect per attached dimension sheet

12.12.17

DA
33
12.12.17

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY			
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

Work Order ID 93764

93764

Page 2

November-27-12 11:10:21 AM

Item ID: D2662-2

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Saddle, RH In 206

Start Date: 11/22/12 Start Qty: 20.00

20

Cust Item ID:

Required Date: 12/21/12 Req'd Qty: 20.00

20

Customer:

Reference:

Run Start

NR1

Approvals:

Process Plan:

Date:

Tooling:

Date:

Stop

NR2

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

120

QC2- Inspect parts off machine FAI/FAIB

0.00

120

QC

Memo

0.00

Quality Control

FR 12/12/18

12.12.17

130

QC8- Inspect parts - second check

0.00

130

QC

Memo

0.00

Quality Control

OK 12/12/18

20

140

Chemical Conversion Coat per QSI005 4.1

0.00

140

HandFinish

Memo

0.00

Hand Finishing

70 1612-20

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped. <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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Work Order ID 93764

93764

Page 3

November-27-12 11:10:21 AM

Item ID: D2662-2 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Saddle, RH In 206
 Start Date: 11/22/12 Start Qty: 20.00 ***20*** Cust Item ID:
 Required Date: 12/21/12 Req'd Qty: 20.00 ***20*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150 *150* Powdercoat Powder Coating	White Gloss(Ref:4.3.5.1) per OSI005 4.3-Alum <i>M 12338</i> Memo START TIME: <i>5:40</i> OVEN TEMPERATURE: <i>325</i> FINISH TIME: <i>7:10</i>	0.00 0.00				<i>20</i>	<i>0</i>	<i>BL 12-12-20</i>	
160 *160* QC Quality Control	QC3- Inspect Part Finish Memo	0.00 0.00						<i>20 x d Muline</i>	
170 *170* Packaging Packaging	Identify as per dwg & Stock Location <i>8433</i> Memo	0.00 0.00				<i>20x</i>		<i>SP 12-12-27</i>	

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>						
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector			
Doc/Data <input type="checkbox"/>												
Equip/Tooling <input type="checkbox"/>												
Operator <input type="checkbox"/>												
Material <input type="checkbox"/>												
Setup <input type="checkbox"/>												
Other <input type="checkbox"/>												
Process <input type="checkbox"/>												
Supplier <input type="checkbox"/>												
Training <input type="checkbox"/>												
Unapproved <input type="checkbox"/>												
FAULT CATEGORY												
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube			General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio			<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other	

Work Order ID 93764

93764

Page 4

November-27-12 11:10:21 AM

Item ID: D2662-2

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Saddle, RH In 206

Start Date: 11/22/12 Start Qty: 20.00

20

Cust Item ID:

Required Date: 12/21/12 Req'd Qty: 20.00

20

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
180	QC21- Final Inspection - Work Order Release	0.00							
180									
QC	Memo	0.00							
Quality Control									

13/1/10
ME
12-12-27

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </td> <td style="width: 33%;"> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </td> <td style="width: 33%;"> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </td> <td style="width: 33%;"> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </td> </tr> </table>	Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>
Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>			

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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Picklist Print

November-27-12 11:10:21 AM

Page 1

Work Order ID: 93764

Parent Item: D2662-2

Parent Item Name: Saddle, RH In 206

Start Date: 11/22/12

Required Date: 12/21/12

Start Qty: 20.00

Required Qty: 20.00

Comments: IPP: C00.11.01Removed P/O for Powder Coat - in house
processEC
ERROR 11-11-17 JLM VERIFIED BY:DD
IPP Rev:D As per Rev D 07-03-19 JLM

IPP REV:D REDESIGN PER ENG

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6101-001 Saddle Billet		Manufactured	No			100	Each	117.0000	1	20			

Location

Loc Qty

Loc Code

MAT040

106

69677

2

76836

1

81923

1

91235

30

91236

60

92595

12

MAT042

1

83309

1

MAT045

10

92550

10

10

10

FK 12/12/10

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

FAULT CATEGORY

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

DART AEROSPACE LTD				Work Order: 93764	
Description: 206 Saddle, Inboard, Left side				Part Number: D2662-2	
Inspection Dwg: D2662 Rev: E DSK: Rev:				Page 1 of 1	

FIRST ARTICLE INSPECTION DIMENSION SHEET

				Record Actual Dimensions				
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	5
A	3.611	3.621		3.616	3.616	3.616	3.616	3.616
B	0.256	0.263		.257	.257	.257	.257	.257
C	0.315	0.322		.316	.316	.316	.316	.316
D	2.495	2.505		2.500	2.500	2.500	2.500	2.500
E	1.674	1.684		1.679	1.679	1.679	1.679	1.679
F	0.100	0.140		.121	.121	.121	.121	.121
G	0.210	0.230		.220	.220	.220	.220	.220
H	0.615	0.685		.670	.670	.670	.670	.670
I	2.470	2.510		2.494	2.494	2.494	2.494	2.494
J	1.313	1.343		1.323	1.323	1.323	1.323	1.323
K	0.178	0.198		.187	.187	.187	.187	.187
L	0.470	0.530		.500	.500	.500	.500	.500
M	1.125	1.145		1.135	1.135	1.135	1.135	1.135
N	0.100	0.180		.140	.140	.140	.140	.140
O	0.100	0.140		.130	.130	.130	.130	.130
P	0.240	0.260		.250	.250	.250	.250	.250
Q	0.677	0.697		.690	.690	.690	.690	.690
R	0.540	0.560		.552	.552	.552	.552	.552
S	0.912	0.932		.925	.925	.925	.925	.925
T	0.787	0.807		.800	.800	.800	.800	.800
U	5.990	6.010		6.001	6.001	6.001	6.001	6.001
V	4.995	5.005		5.000	5.000	5.000	5.000	5.000
W	0.490	0.510		.502	.502	.502	.502	.502
X	0.312	0.319		.313	.313	.313	.313	.313
Y	0.990	1.010		.998	.998	.998	.998	.998
Z								
AA	1.245	1.255		1.250	1.250	1.250	1.250	1.250
AB	0.490	0.510		.500	.500	.500	.500	.500
AC	3.745	3.755		3.750	3.750	3.750	3.750	3.750
AD	0.100	0.140		.137	.137	.137	.137	.137
AE	0.235	0.240		.237	.237	.237	.237	.237
AF	0.510	0.515		.512	.512	.512	.512	.512
AG	0.100	0.120		.113	.113	.113	.113	.113
AH	1.565	1.585		1.570	1.570	1.570	1.570	1.570
Accept/Reject								

Measured by: BC DAS	Date: 12-12-15
Audited by: 14 S-B	Date: 12/12/18
Prototype Approval:	Date:

Rev	Date	Change	Revised by	Approved
D	02.12.12	R-format; Added Dim. U-W & DT8683, DT8686 & DT8695 A/B	KJ/RF	
E	06.07.05	Revised per drawing revision C	KJ/JLM	
F	07.03.21	Revised per drawing revision D	KJ/JLM	
G	12.01.10	Revised per drawing revision E	KJ	
H	12.03.08	Dimension AH added, O revised	KJ	A

DART AEROSPACE LTD				Work Order: 93764	
Description: 206 Saddle, Inboard, Left side				Part Number: D2662-2	
Inspection Dwg: D2662 Rev: E DSK: Rev:				Page 1 of 1	

FIRST ARTICLE INSPECTION DIMENSION SHEET

				Record Actual Dimensions				
Dim	Min	Max	Go/No Go Gauge	1 6	2 7	3 8	4 9	5 10
A	3.611	3.621		3.616	3.616	3.616	3.616	3.616
B	0.256	0.263		.257	.257	.257	.257	.257
C	0.315	0.322		.316	.316	.316	.316	.316
D	2.495	2.505		2.500	2.500	2.500	2.500	2.500
E	1.674	1.684		1.679	1.679	1.679	1.679	1.679
F	0.100	0.140		.121	.121	.121	.121	.120
G	0.210	0.230		.220	.220	.220	.220	.220
H	0.615	0.685		.670	.670	.670	.670	.670
I	2.470	2.510		2.494	2.494	2.494	2.494	2.494
J	1.313	1.343		1.323	1.323	1.323	1.323	1.323
K	0.178	0.198		.187	.187	.187	.187	.187
L	0.470	0.530		.500	.500	.500	.500	.500
M	1.125	1.145		1.135	1.135	1.135	1.135	1.135
N	0.100	0.180		.140	.140	.140	.140	.140
O	0.100	0.140		.128	.128	.128	.128	.128
P	0.240	0.260		.251	.251	.251	.251	.251
Q	0.677	0.697		.687	.687	.687	.687	.687
R	0.540	0.560		.552	.552	.552	.552	.552
S	0.912	0.932		.923	.923	.923	.923	.923
T	0.787	0.807		.801	.801	.801	.801	.801
U	5.990	6.010		6.001	6.001	6.001	6.001	6.001
V	4.995	5.005		5.000	5.000	5.000	5.000	5.000
W	0.490	0.510		.501	.501	.501	.501	.501
X	0.312	0.319		.313	.313	.313	.313	.313
Y	0.990	1.010		.998	.998	.998	.998	.998
Z								
AA	1.245	1.255		1.250	1.250	1.250	1.250	1.250
AB	0.490	0.510		.500	.500	.500	.500	.500
AC	3.745	3.755		3.750	3.750	3.750	3.750	3.750
AD	0.100	0.140		.136	.136	.136	.136	.136
AE	0.235	0.240		.237	.237	.237	.237	.237
AF	0.510	0.515		.512	.512	.512	.512	.512
AG	0.100	0.120		.113	.113	.113	.113	.113
AH	1.565	1.585		1.570	1.570	1.570	1.570	1.570
Accept/Reject								

Measured by: BC	Date: 12.12.15
Audited by: DAS	Date: 12/12/18
Prototype Approval: 14	Date:

Rev	Date	Change	Revised by	Approved
D	02.12.12	R-format; Added Dim. U-W & DT8683, DT8686 & DT8695 A/B	KJ/RF	
E	06.07.05	Revised per drawing revision C	KJ/JLM	
F	07.03.21	Revised per drawing revision D	KJ/JLM	
G	12.01.10	Revised per drawing revision E	KJ	
H	12.03.08	Dimension AH added, O revised	KJ	

DART AEROSPACE LTD				Work Order: 93764	
Description: 206 Saddle, Inboard, Left side				Part Number: D2662-2	
Inspection Dwg: D2662 Rev: E DSK: Rev:				Page 1 of 1	

FIRST ARTICLE INSPECTION DIMENSION SHEET

				Record Actual Dimensions				
Dim	Min	Max	Go/No Go Gauge	11	12	13	14	15
A	3.611	3.621		3.616	3.616	3.616	3.616	3.616
B	0.256	0.263		.257	.257	.257	.257	.257
C	0.315	0.322		.316	.316	.316	.316	.316
D	2.495	2.505		2.500	2.500	2.500	2.500	2.500
E	1.674	1.684		1.679	1.679	1.679	1.679	1.679
F	0.100	0.140		.120	.120	.120	.120	.120
G	0.210	0.230		.220	.220	.220	.220	.220
H	0.615	0.685		.670	.670	.670	.670	.670
I	2.470	2.510		2.495	2.495	2.495	2.495	2.495
J	1.313	1.343		1.323	1.323	1.323	1.323	1.323
K	0.178	0.198		.188	.188	.188	.188	.188
L	0.470	0.530		.500	.500	.500	.500	.500
M	1.125	1.145		1.135	1.135	1.135	1.135	1.135
N	0.100	0.180		.140	.140	.140	.140	.140
O	0.100	0.140		.130	.130	.130	.130	.130
P	0.240	0.260		.250	.250	.250	.250	.250
Q	0.677	0.697		.690	.690	.690	.690	.690
R	0.540	0.560		.551	.551	.551	.551	.551
S	0.912	0.932		.925	.925	.925	.925	.925
T	0.787	0.807		.799	.799	.799	.799	.799
U	5.990	6.010		6.001	6.001	6.001	6.001	6.001
V	4.995	5.005		5.000	5.000	5.000	5.000	5.000
W	0.490	0.510		.500	.500	.500	.500	.500
X	0.312	0.319		.313	.313	.313	.313	.313
Y	0.990	1.010		.998	.998	.998	.998	.998
Z								
AA	1.245	1.255		1.250	1.250	1.250	1.250	1.250
AB	0.490	0.510		.500	.500	.500	.500	.500
AC	3.745	3.755		3.750	3.750	3.750	3.750	3.750
AD	0.100	0.140		.138	.138	.138	.138	.138
AE	0.235	0.240		.237	.237	.237	.237	.237
AF	0.510	0.515		.512	.512	.512	.512	.512
AG	0.100	0.120		.113	.113	.113	.113	.113
AH	1.565	1.585		1.575	1.575	1.575	1.575	1.575
Accept/Reject								

Measured by: SC	Date: 12.12.17
Audited by: 12	Date: 12/12/18
Prototype Approval:	Date:

Rev	Date	Change	Revised by	Approved
D	02.12.12	R-format; Added Dim. U-W & DT8683, DT8686 & DT8695 A/B	KJ/RF	
E	06.07.05	Revised per drawing revision C	KJ/JLM	
F	07.03.21	Revised per drawing revision D	KJ/JLM	
G	12.01.10	Revised per drawing revision E	KJ	
H	12.03.08	Dimension AH added, O revised	KJ	

DART AEROSPACE LTD		Work Order:	932164
Description: 206 Saddle, Inboard, Left side		Part Number:	D2662-2
Inspection Dwg: D2662 Rev: E DSK: Rev:		Page 1 of 1	

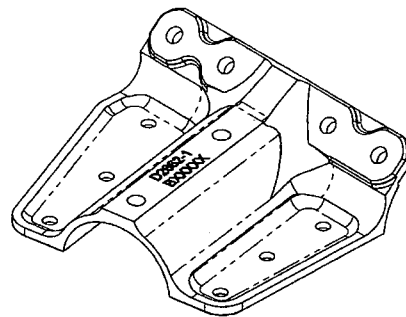
FIRST ARTICLE INSPECTION DIMENSION SHEET

Dim	Min	Max	Go/No Go Gauge	Record Actual Dimensions				
				1 16	2 17	3 18	4 19	5 20
A	3.611	3.621		3.616	3.616	3.616	3.616	3.616
B	0.256	0.263		.257	.257	.257	.257	.257
C	0.315	0.322		.316	.316	.316	.316	.316
D	2.495	2.505		2.500	2.500	2.500	2.500	2.500
E	1.674	1.684		1.679	1.679	1.679	1.679	1.679
F	0.100	0.140		.120	.120	.120	.120	.120
G	0.210	0.230		.220	.220	.220	.220	.220
H	0.615	0.685		.670	.670	.670	.670	.670
I	2.470	2.510		2.494	2.494	2.494	2.494	2.494
J	1.313	1.343		1.323	1.323	1.323	1.323	1.323
K	0.178	0.198		.188	.188	.188	.188	.188
L	0.470	0.530		.500	.500	.500	.500	.500
M	1.125	1.145		1.135	1.135	1.135	1.135	1.135
N	0.100	0.180		.140	.140	.140	.140	.140
O	0.100	0.140		.170	.170	.170	.170	.170
P	0.240	0.260		.250	.250	.250	.250	.250
Q	0.677	0.697		.690	.690	.690	.690	.690
R	0.540	0.560		.552	.552	.552	.552	.552
S	0.912	0.932		.925	.925	.925	.925	.925
T	0.787	0.807		.800	.800	.800	.800	.800
U	5.990	6.010		6.001	6.001	6.001	6.001	6.001
V	4.995	5.005		5.000	5.000	5.000	5.000	5.000
W	0.490	0.510		.500	.500	.500	.500	.500
X	0.312	0.319		.313	.313	.313	.313	.313
Y	0.990	1.010		.998	.998	.998	.998	.998
Z								
AA	1.245	1.255		1.250	1.250	1.250	1.250	1.250
AB	0.490	0.510		.500	.500	.500	.500	.500
AC	3.745	3.755		3.750	3.750	3.750	3.750	3.750
AD	0.100	0.140		.125	.125	.125	.125	.125
AE	0.235	0.240		.237	.237	.237	.237	.237
AF	0.510	0.515		.512	.512	.512	.512	.512
AG	0.100	0.120		.113	.113	.113	.113	.113
AH	1.565	1.585		1.575	1.575	1.575	1.575	1.575
Accept/Reject								

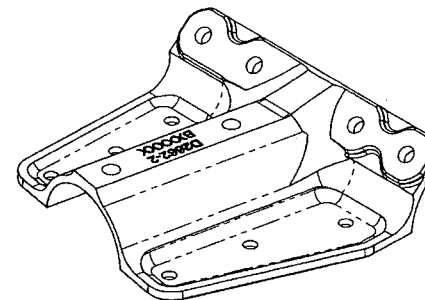
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Audited by:	<i>14</i>	Date:	<i>12/12/18</i>
Prototype Approval:		Date:	

Rev	Date	Change	Revised by	Approved
D	02.12.12	R-format; Added Dim. U:W & DT8683, DT8686 & DT8695 A/B	KJ/RF	
E	06.07.05	Revised per drawing revision C	KJ/JLM	
F	07.03.21	Revised per drawing revision D	KJ/JLM	
G	12.01.10	Revised per drawing revision E	KJ	
H	12.03.08	Dimension AH added, O revised	KJ	

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 WORK ORDER
 NO. 93764 MJS
 12-11-28



D2662-1 SADDLE, INSIDE, LH



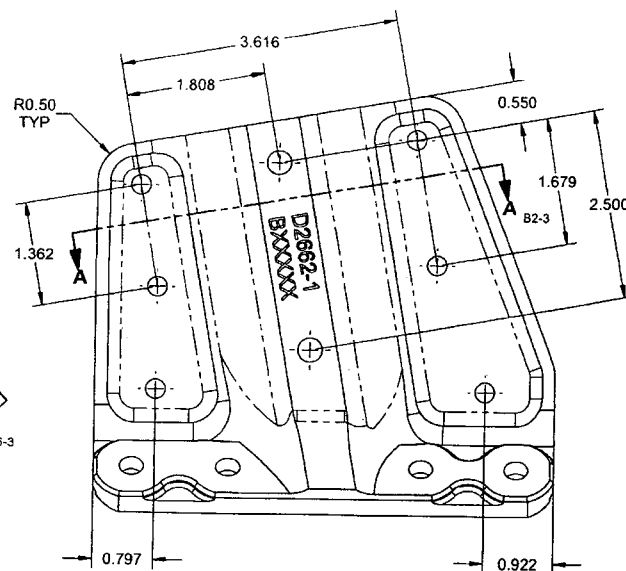
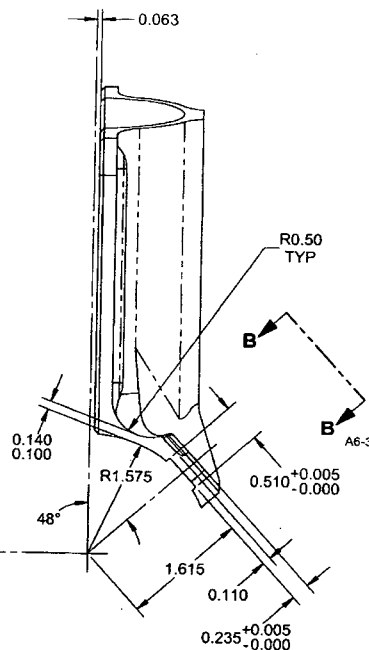
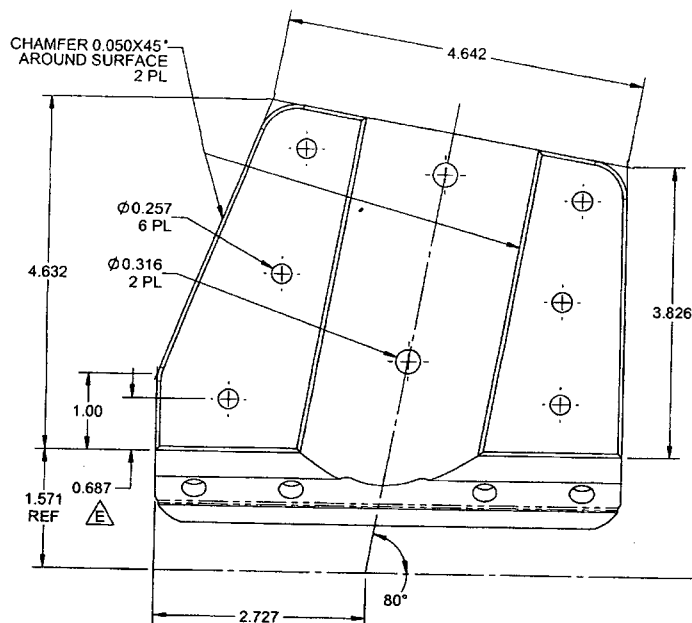
D2662-2 SADDLE, INSIDE, RH

RELEASED
 2011-11-16

E	REDRAW & REFORMAT DWG; 0.687 WAS 0.547 (B8-2.B5-4), REF NCR 11-935	CP	11.10.31
D	R0.188 WAS R0.30; Ø0.316 WAS Ø0.313	CB	06.11.08
C	INCORP DEO 9122/9102/9095/9137	CB	06.05.29
B	ANGLE AND NOTES ADDED	KE	97.07.11
A	NEW ISSUE	DS	97.03.25
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE USA, INC. KENT, WA	
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.		DRAWING NO. D2662 TITLE SADDLE, INSIDE SCALE NTS	
DATE	11.10.31	REV. E SHEET 1 OF 5	

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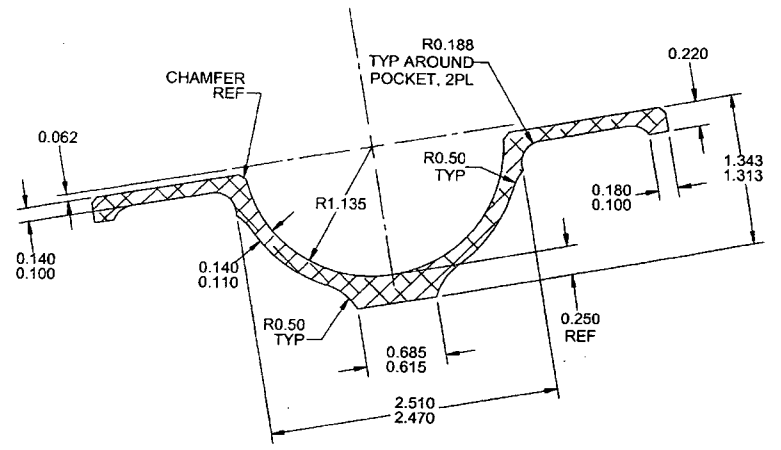
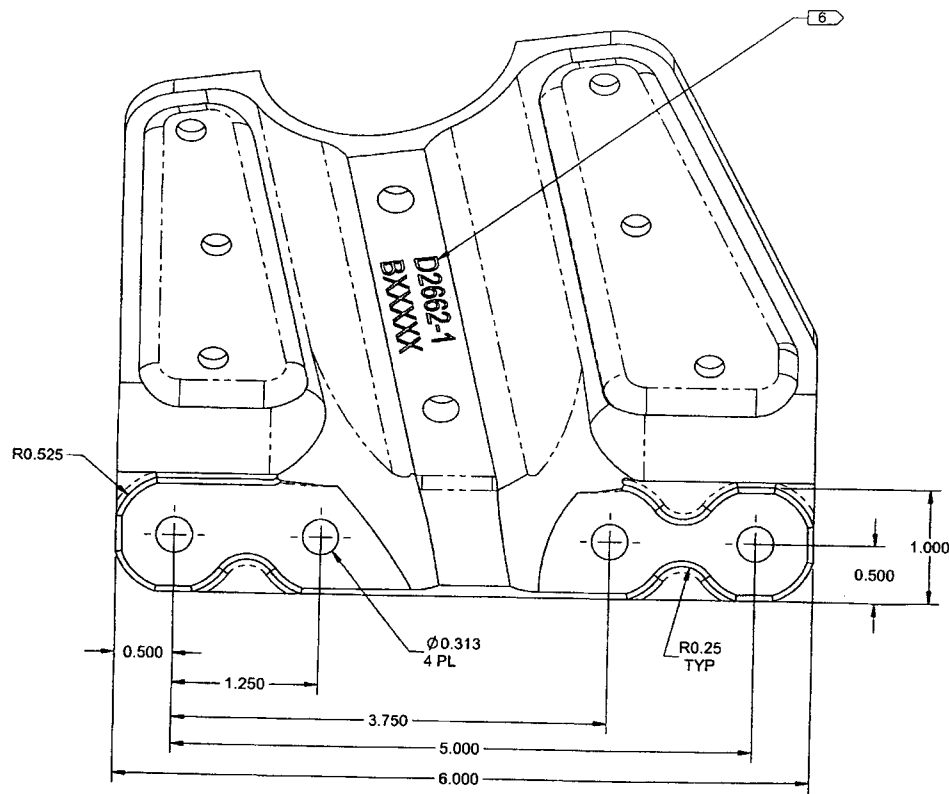
D2662-1 SADDLE, INSIDE, LH

- 1) MATERIAL: 7075-T7351 ALUMINUM PLATE PER QQ-A-250/12, AMS-QQ-A-250/12, OR ASTM B209
MAKE FROM D6101-001 SADDLE BILLET
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT "WHITE GLOSS" (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.010 TO 0.020 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N AND B/N PER DART QSI 044 6.3 (CNC ENGRAVING)
USING MAX DEPTH OF 0.010 WITH MIN RADIUS OF 0.010
- 7) WEIGHT: 0.66 lbs

RELEASED
2011-11-16

DESIGN	93764	DART AEROSPACE USA, INC.	
DRAWN	ASS	KENT, WA	
CHECKED	ASS	DRAWING NO.	REV. E
MFG. APPR.	ASS	D2662	SHEET 2 OF 5
APPROVED	ASS	TITLE	SCALE
DE APPR.	ASS	SADDLE, INSIDE	NTS
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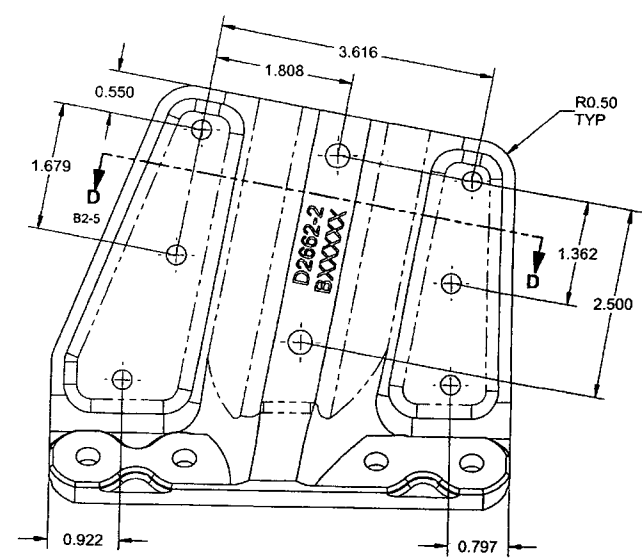
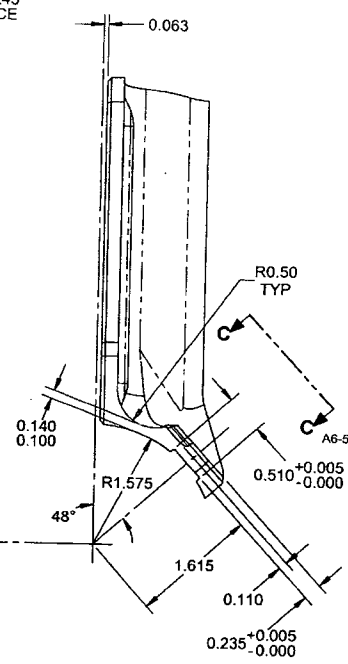
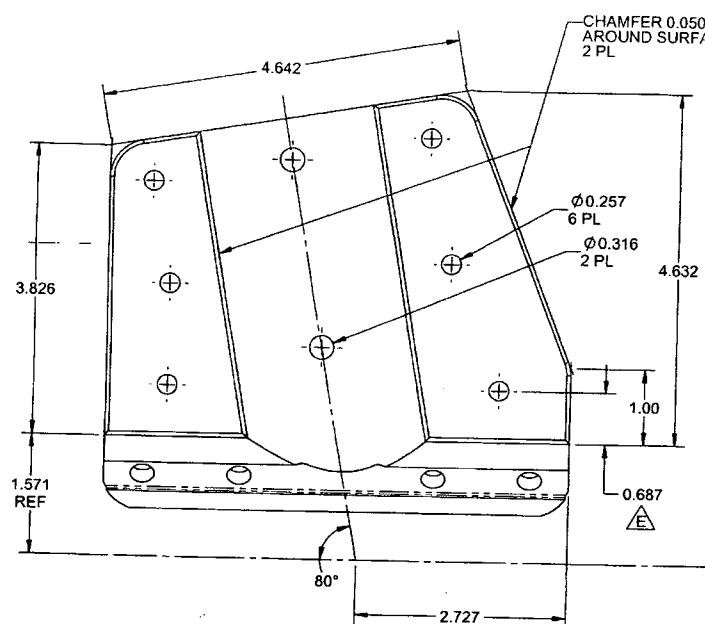
93764



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2011-11-16

DESIGN	90	DART AEROSPACE USA, INC. KENT, WA	
DRAWN	90		
CHECKED	AS	DRAWING NO.	REV. E
MFG. APPR.	SM	D2662	SHEET 3 OF 5
APPROVED	SM	TITLE	SCALE
DE APPR.	SM	SADDLE, INSIDE	NTS
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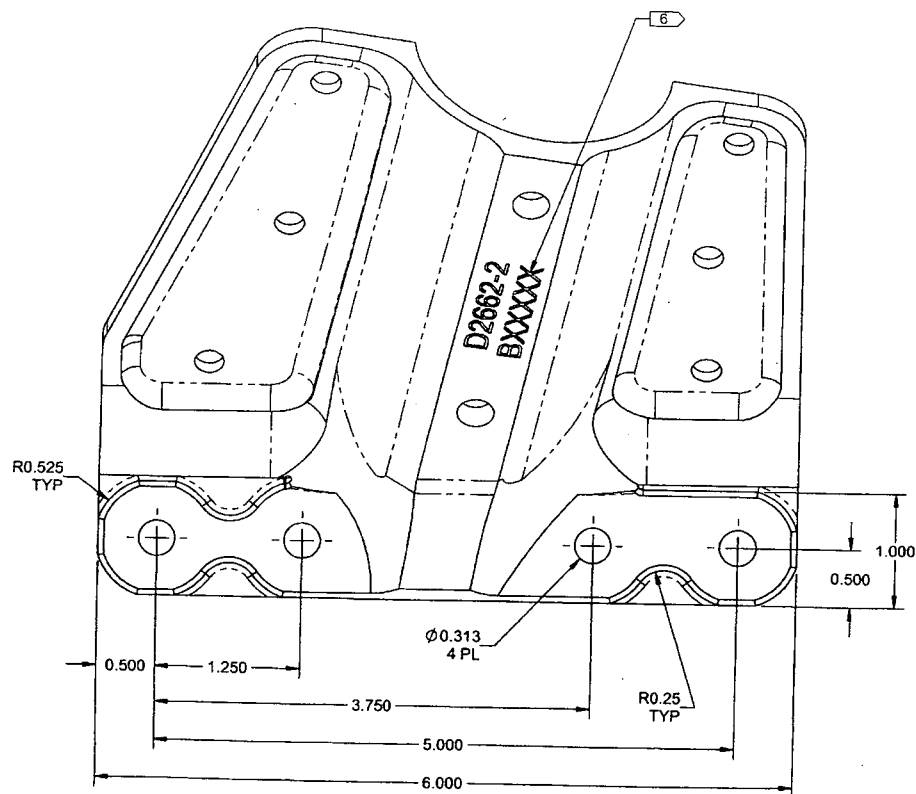
RELEASED
2011-11-16

D2662-2 SADDLE, INSIDE, RH

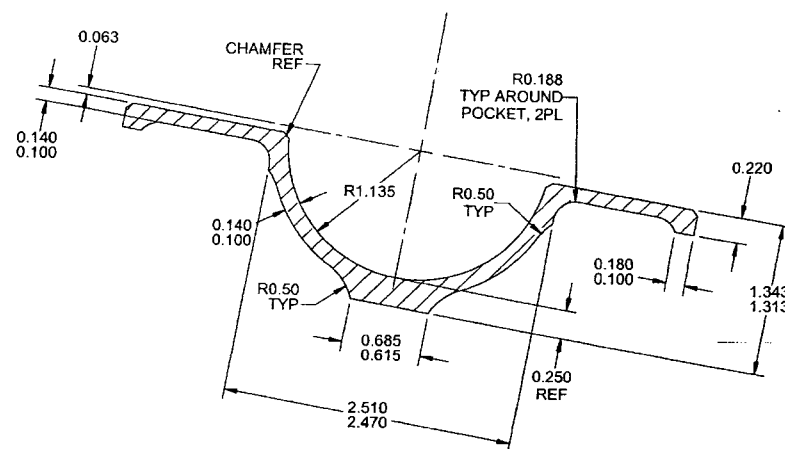
- 1) MATERIAL: 7075-T7351 ALUMINUM PLATE PER QQ-A-250/12, AMS-QQ-A-250/12, OR ASTM B209
MAKE FROM D6101-001 SADDLE BILLET
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT "WHITE GLOSS" (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.010 TO 0.020 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N AND B/N PER DART QSI 044 6.3 (CNC ENGRAVING)
USING MAX DEPTH OF 0.010 WITH MIN RADIUS OF 0.010
- 7) WEIGHT: 0.66 lbs

DESIGN		DART AEROSPACE USA, INC.	
DRAWN		KENT, WA	
CHECKED		DRAWING NO.	REV. E
MFG. APPR.		D2662	SHEET 4 OF 5
APPROVED		TITLE	SCALE
DE APPR.		SADDLE, INSIDE	NTS
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93764



VIEW D-D
SCALE 1.5X
VIEW ROTATED



VIEW C-C
SCALE 1.5X

RELEASED
2011-11-16

DESIGN		DART AEROSPACE USA, INC.	
DRAWN		KENT, WA	
CHECKED		DRAWING NO.	REV. E
MFG. APPR.		D2662	SHEET 5 OF 5
APPROVED		TITLE	SCALE
DE APPR.		SADDLE, INSIDE	NTS
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